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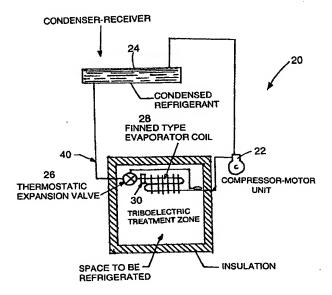
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[Continued on next page]

(54) Title: METHOD AND APPARATUS FOR ENHANCING HEAT PUMP AND REFRIGERATION EQUIPMENT PERFORMANCE



(57) Abstract: A vapor compression apparatus and a method for operating a vapor compression system are provided. A working fluid is conveyed through a vapor compression system having a fluid line. A charging element is connected to the fluid line to direct an electric charge into working fluid. The electric charge is operable to disrupt intermolecular forces and weaken intermolecular attraction to enhance expansion of the working fluid to the vapor phase, increasing the capacity, performance and efficiency of the system components, and reducing system cycling mechanical wear and energy consumption.





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A. CLASSIFICATION OF SUBJECT MATTER			
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According to International Patent Classification (IPC) or to both national classification and IPC			
B. FIELDS SEARCHED			
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None			
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Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)			
None			
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C. DOCUMENTS CONSIDERED TO BE RELEVANT			
			75.1
Category *	Citation of document, with indication, where ap		Relevant to claim No.
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Burther	r documents are listed in the continuation of Box C.	See patent family annex.	
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		date and not in conflict with the applic	
	defining the general state of the art which is not considered to be	principle or theory underlying the inve	ntion
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"P" document published prior to the international filing date but later than the "&" document member of the same patent family priority date claimed			
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